PCT/SE00/00384

SEQUENCE LISTING

<110> Haeggström et al., Jesper
<120> DRUG DESIGN BASED ON THE STRUCTURE OF LTA, HYDROLASE
<130> 54660
<140> <141>
<160> 1
<170> PatentIn Ver. 2.1
<210> 1 <211> 611 <212> PRT <213> HUMAN
<220> <223> AMINO ACID SEQUENCE OF HUMAN LEUKOTRIENE A4 HYDROLASE
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Cys Arg Thr Lys His Leu His Leu Arg Cys Ser Val Asp Phe Thr Arg 20 25 30
Arg Thr Leu Thr Gly Thr Ala Ala Leu Thr Val Gln Ser Gln Glu Asp 35 40 45
Asn Leu Arg Ser Leu Val Leu Asp Thr Lys Asp Leu Thr Ile Glu Lys 50 55 60
Val Val Ile Asn Gly Gln Glu Val Lys Tyr Ala Leu Gly Glu Arg Gln 65 70 75 80
Ser Tyr Lys Gly Ser Pro Met Glu Ile Ser Leu Pro Ile Ala Leu Ser 85 90 95
Lys Asn Glu Ile Val Ile Glu Ile Ser Phe Glu Thr Ser Pro Lys 100 105 110
Ser Ser Ala Leu Gln Trp Leu Thr Pro Glu Gln Thr Ser Gly Lys Glu 115 120 125
His Pro Tyr Leu Phe Ser Gln Cys Gln Ala Ile His Cys Arg Ala Ile 130 135 140
Leu Pro Cys Gln Asp Thr Pro Ser Val Lys Leu Thr Tyr Thr Ala Glu 145 150 155 160
Val Ser Val Pro Lys Glu Leu Val Ala Leu Met Ser Ala Ile Arg Asp 165 170 175

- Gly Glu Thr Pro Asp Pro Glu Asp Pro Ser Arg Lys Ile Tyr Lys Phe 180 185 190
- lle Gln Lys Val Pro Ile Pro Cys Tyr Leu Ile Ala Leu Val Val Gly 195 200 205
- Ala Leu Glu Ser Arg Gln Ile Gly Pro Arg Thr Leu Val Trp Ser Glu 210 215 220
- Lys Glu Gln Val Glu Lys Ser Ala Tyr Glu Phe Ser Glu Thr Glu Ser 225 230 235 240
- Met Leu Lys Ile Ala Glu Asp Leu Gly Gly Pro Tyr Val Trp Gly Gln 245 250 255
- Tyr Asp Leu Leu Val Leu Pro Pro Ser Phe Pro Tyr Gly Gly Met Glu 260 265 270
- Asn Pro Cys Leu Thr Phe Val Thr Pro Thr Leu Leu Ala Gly Asp Lys 275 280 285
- Ser Leu Ser Asn Val Ile Ala His Glu Ile Ser His Ser Trp Thr Gly 290 295 300
- Asn Leu Val Thr Asn Lys Thr Trp Asp His Phe Trp Leu Asn Glu Gly 305 310 315 320
- His Thr Val Tyr Leu Glu Arg His Ile Cys Gly Arg Leu Phe Gly Glu 325 330 335
- Lys Phe Arg His Phe Asn Ala Leu Gly Gly Trp Gly Glu Leu Gln Asn 340 345 350
- Ser Val Lys Thr Phe Gly Glu Thr His Pro Phe Thr Lys Leu Val Val 355 360 365
- Asp Leu Thr Asp Ile Asp Pro Asp Val Ala Tyr Ser Ser Val Pro Tyr 370 375 380
- Glu Lys Gly Phe Ala Leu Leu Phe Tyr Leu Glu Gln Leu Leu Gly Gly 385 390 395 400
- Pro Glu Ile Phe Leu Gly Phe Leu Lys Ala Tyr Val Glu Lys Phe Ser 405 410 415
- Tyr Lys Ser Ile Thr Thr Asp Asp Trp Lys Asp Phe Leu Tyr Ser Tyr 420 425 430
- Phe Lys Asp Lys Val Asp Val Leu Asn Gln Val Asp Trp Asn Ala Trp
 435 440 445
- Leu Tyr Ser Pro Gly Leu Pro Pro Ile Lys Pro Asn Tyr Asp Met Thr 450 455 460
- Leu Thr Asn Ala Cys Ile Ala Leu Ser Gln Arg Trp Ile Thr Ala Lys 465 470 475 480
- Glu Asp Asp Leu Asn Ser Phe Asn Ala Thr Asp Leu Lys Asp Leu Ser

3

495

490

Ser His Gln Leu Asn Glu Phe Leu Ala Gln Thr Leu Gln Arg Ala Pro 500 505 510

Leu Pro Leu Gly His Ile Lys Arg Met Gln Glu Val Tyr Asn Phe Asn 520 525

Ala Ile Asn Asn Ser Glu Ile Arg Phe Arg Trp Leu Arg Leu Cys Ile

Gin Ser Lys Trp Glu Asp Ala Ile Pro Leu Ala Leu Lys Met Ala Thr 545 550 555

Glu Gln Gly Arg Met Lys Phe Thr Arg Pro Leu Phe Lys Asp Leu Ala 570 575

Ala Phe Asp Lys Ser His Asp Gln Ala Val Arg Thr Tyr Gln Glu His 590

Lys Ala Ser Met His Pro Val Thr Ala Met Leu Val Gly Lys Asp Leu 600 605

Lys Val Asp 610

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SEQUENCE LISTING

<110> Jesper Z. HAEGGSTRÖM et al.

<120> Drug design based on the structure of LTA4 Hydrolase

<130> 30630US02

<140> US 09/914,451

<141> 2001-08-27

<150> SE 9900722.1

<151> 1999-02-26

<150> US 60/122,110

<151> 1999-02-26

<160>1

<170> FastSEQ for Windows Version 4.0

<210>1

<211>610

<212> PRT

<213> homo sapiens

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Pro Glu Ile Val Asp Thr Cys Ser Leu Ala Ser Pro Ala Ser Val Cys

5 10 15

Arg Thr Lys His Leu His Leu Arg Cys Ser Val Asp Phe Thr Arg Arg
20 25 30

Thr Leu Thr Gly Thr Ala Ala Leu Thr Val Gln Ser Gln Glu Asp Asn 35 40 45

Leu Arg Ser Leu Val Leu Asp Thr Lys Asp Leu Thr Ile Glu Lys Val 50 55 60

Val Ile Asn Gly Gln Glu Val Lys Tyr Ala Leu Gly Glu Arg Gln Ser 65 70 75 80

Tyr Lys Gly Ser Pro Met Glu Ile Ser Leu Pro Ile Ala Leu Ser Lys 85 90 95

Asn Gin Glu Ile Val Ile Glu Ile Ser Phe Glu Thr Ser Pro Lys Ser 100 105 110

Ser Ala Leu Gln Trp Leu Thr Pro Glu Gln Thr Ser Gly Lys Glu His 115 120 125

Pro Tyr Leu Phe Ser Gln Cys Gln Ala Ile His Cys Arg Ala Ile Leu 130 135 140

Pro Cys Gln Asp Thr Pro Ser Val Lys Leu Thr Tyr Thr Ala Glu Val 145 150 155 160

Ser Val Pro Lys Glu Leu Val Ala Leu Met Ser Ala Ile Arg Asp Gly 165 170 175

Glu Thr Pro Asp Pro Glu Asp Pro Ser Arg Lys Ile Tyr Lys Phe Ile 180 185 190

Gln Lys Val Pro Ile Pro Cys Tyr Leu Ile Ala Leu Val Val Gly Ala 195 200 205

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Leu Glu Ser Arg Gln Ile Gly Pro Arg Thr Leu Val Trp Ser Glu Lys 210 215 220
Glu Gln Val Glu Lys Ser Ala Tyr Glu Phe Ser Glu Thr Glu Ser Met 225 230 235 240
Leu Lys Ile Ala Glu Asp Leu Gly Gly Pro Tyr Val Trp Gly Gln Tyr 245 250 255
Asp Leu Leu Val Leu Pro Pro Ser Phe Pro Tyr Gly Gly Met Glu Asn 260 265 270
Pro Cys Leu Thr Phe Val Thr Pro Thr Leu Leu Ala Gly Asp Lys Ser 275 280 285
Leu Ser Asn Val Ile Ala His Glu Ile Ser His Ser Trp Thr Gly Asn 290 295 300
Leu Val Thr Asn Lys Thr Trp Asp His Phe Trp Leu Asn Glu Gly His 305 310 315 320
Thr Val Tyr Leu Glu Arg His Ile Cys Gly Arg Leu Phe Gly Glu Lys 325 330 335
Phe Arg His Phe Asn Ala Leu Gly Gly Trp Gly Glu Leu Gln Asn Ser 340 345 350
Val Lys Thr Phe Gly Glu Thr His Pro Phe Thr Lys Leu Val Val Asp 355 360 365
Leu Thr Asp Ile Asp Pro Asp Val Ala Tyr Ser Ser Val Pro Tyr Glu 370 375 380
Lys Gly Phe Ala Leu Leu Phe Tyr Leu Glu Gln Leu Leu Gly Gly Pro 385 390 395 400
Glu Ile Phe Leu Gly Phe Leu Lys Ala Tyr Val Glu Lys Phe Ser Tyr 405 410 415
Lys Ser Ile Thr Thr Asp Asp Trp Lys Asp Phe Leu Tyr Ser Tyr Phe 420 425 430
Lys Asp Lys Val Asp Val Leu Asn Gln Val Asp Trp Asn Ala Trp Leu 435 440 445
Tyr Ser Pro Gly Leu Pro Pro Ile Lys Pro Asn Tyr Asp Met Thr Leu 450 455 460
Thr Asn Ala Cys Ile Ala Leu Ser Gln Arg Trp Ile Thr Ala Lys Glu 465 470 475 480
Asp Asp Leu Asn Ser Phe Asn Ala Thr Asp Leu Lys Asp Leu Ser Ser 485 490 495
His Gln Leu Asn Glu Phe Leu Ala Gln Thr Leu Gln Arg Ala Pro Leu 500 505 510
Pro Leu Gly His Ile Lys Arg Met Gln Glu Val Tyr Asn Phe Asn Ala 515 520 525
Ile Asn Asn Ser Glu Ile Arg Phe Arg Trp Leu Arg Leu Cys Ile Gln 530 535 540
Ser Lys Trp Glu Asp Ala Ile Pro Leu Ala Leu Lys Met Ala Thr Glu 545 550 555 560
Gln Gly Arg Met Lys Phe Thr Arg Pro Leu Phe Lys Asp Leu Ala Ala 565 570 575
Phe Asp Lys Ser His Asp Gln Ala Val Arg Thr Tyr Gln Glu His Lys
580 585 590

595 Val Asp 610 600 605